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| APPLICATION NO.                           | FILING DATE   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.        | CONFIRMATION NO |  |
|---|---------------|----------------------|----------------------------|-----------------|--|
| 10/617,950                                | 07/12/2003    | Mark Crockett        | 006051 USA P<br>01/SMO/SMO | 4489            |  |
| 75  | 90 03/08/2005 |                      | EXAMINER                   |                 |  |
| PATENT COUNSEL<br>APPLIED MATERIALS, INC. |               |                      | LE, HU                     | LE, HUYEN D     |  |
| Legal Affairs Department                  |               |                      | ART UNIT                   | PAPER NUMBER    |  |
| P.O. BOX 450A                             |               |                      | 3751                       |                 |  |
| Santa Clara, CA 95052                     |               |                      | DATE MAILED: 03/08/2005    |                 |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Application No. Applicant(s)  10/617,950 CROCKETT ET AL  Examiner Art Unit  Huyen Le 3751  |              |
|--|--------------|
| Office Action Summary Examiner Art Unit  |              |
| Examiner Assessment  |              |
| Huyan La 3751  |              |
|  | l            |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence add<br>Period for Reply  | ress         |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this cor  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | nmunication. |
| Status   |              |
| 1) Responsive to communication(s) filed on <u>12 July 2003</u> .   |              |
| 2a) This action is <b>FINAL</b> . 2b) This action is non-final.  |              |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.   | merits is    |
| Disposition of Claims  |              |
| 4) ☐ Claim(s) 1-68 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) 1-68 are subject to restriction and/or election requirement.  |              |
| Application Papers   |              |
| 9)☐ The specification is objected to by the Examiner.  |              |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.   |              |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |              |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFI  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTC  |              |
| Priority under 35 U.S.C. § 119   |              |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Sapplication from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.   | Stage        |
| Attachment(s)  |              |
| Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)   | •            |
| Notice of Draftsperson's Patent Drawing Review (PTO-948)   Paper No(s)/Mail Date   | 152)         |

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-36 and 42-55, drawn to a fluid handling structure, classified in class 137, subclass 833.
  - II. Claim 37, drawn to an on/off valve, classified in class 251, subclass 63.
  - III. Claims 38 and 39, drawn to a pressure sensor, classified in class 251, subclass 129.01.
  - IV. Claims 40 and 41, drawn to an in-line filter, classified in class 55/323.
  - V. Claims 56-63, drawn to a method of increasing the etchability of a metal, classified in class 216, subclass 16.
  - VI. Claims 64-67, drawn to a method of attaching a semiconductor component to a semiconductor chamber, classified in class 438, subclass 63.
  - VII. Claim 68, drawn to a method of improving the corrosion resistance of a stainless steel, classified in class 148, subclass 95.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP §

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806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the fluid handling structure does not require that a valve has a sliding cylinder. The subcombination has separate utility such as an on/off valve without having structure formed by a plurality of adhered metal layers.

- 3. Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the fluid handling structure does not require that a pressure sensor include an electrically insulative disk in contact with a spacer, which is in contact with an overlying cap layer. The subcombination has separate utility such as a capacitance dual electrode pressure sensor.
- 4. Inventions I and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the fluid handling structure does not require that a filter includes a cavity filled with a sinter media. The subcombination has separate utility such as an in-line filter.

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5. Inventions V and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process as claimed can be used to make other different product such as one without a multiple metal layers adhered together having openings for handling fluid.

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- 6. Inventions VI and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process as claimed can be used to make other product such as one without a plurality of adhered metal layers.
- 7. Inventions I and VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the process for using the product as claimed can be practiced with another materially different product such as one without being a fluid handling device with a plurality of metal layers made of stainless steel.

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8. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

9. A telephone call was made to the applicant on March 3, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huyen Le whose telephone number is 571-272-4890. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on 571-272-4835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Huyen Le

Examiner Art Unit 3751

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March 3, 2005